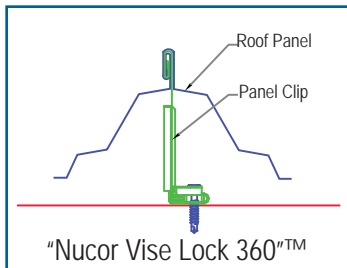
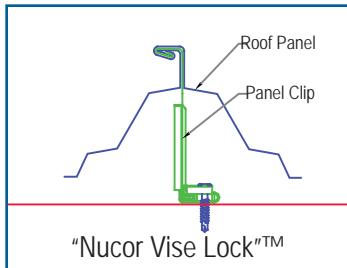
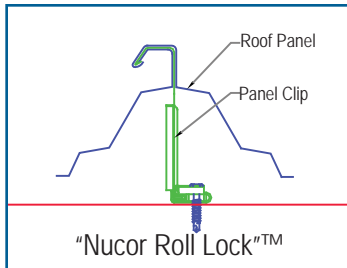


Nucor "CFR"TM Performance Data

The Nucor "CFR"TM Roof System has been tested and certified by independent testing agencies and laboratories and achieved the loads and listings shown.

The following recognized certifications and listings have been earned:

Corps of Engineers CEGS 07416 Uplift Test.
 ASTM E 1680 Air Infiltration all seams 24" wide panels=.0005 CFM/sq. ft.
 ASTM E 1646 Water Infiltration: No water leakage at 12 psf.
 ASTM E 2140 Water Penetration: No water leakage at 6" water head during 6 hour test period.
 ASTM E 108 Spread-of-Flame Testing: Class 1A rating.
 FM 4471 Simulated Hail Resistance Testing: Class SH Hail Resistance.
 Florida Product Approval: Nucor "CFR"TM approved under file number FL4891.



Underwriters Laboratories UL 580 Construction No. 552, 552A, 552B Nucor CFRTM Roof with "Nuocr Roll Lock"TM, "Nucor Vise Lock"TM, "Nucor Vise Lock 360"TM Seams

UL Listing	Panel Width	Panel Gage	Seam Type	Purlin Gage	Purlin Spacing
UL-90	24"	24 ga.	All Seam Types	.060	5'0"

Factory Mutual Class: 4471 Uplift Test Results Nucor CFRTM Roof with "Nucor Vise Lock"TM Seams

FM Listing	Panel Width	Panel Gage	Purlin Depth (min)	Purlin Gage (min)	Purlin Spacing
1-90	24"	24 ga.	8"	.060	5'0"
1-120	24"	22 ga.	8"	.060	5'0"

Factory Mutual Class: 4471 Uplift Test Results Nucor CFRTM Roof with "Nucor Vise Lock 360"TM Seams

FM Listing	Panel Width	Panel Gage	Purlin Depth (min)	Purlin Gage (min)	Purlin Spacing
1-105	24"	24 ga.	8"	.060	5'0"
1-120	24"	24 ga.	8"	.071	5'0"
1-165	24"	24 ga.	8"	.071	2'6"
1-180	24"	22 ga.	8"	.071	2'6"

ASTM E 1592 Uplift Test Results Nucor CFRTM Roof with "Nucor Roll Lock"TM Seams

Purlin Spacing	Panel Width	Panel Gage	Clip Type	Purlin Gage (min)	Design Load AISI C F00-1 (sf=1.724, no wind increase)
5'0"	24"	24 ga.	Standard	.060	27.9
2'0"	24"	24 ga.	Standard	.060	60.3

ASTM E 1592 Uplift Test Results Nucor CFRTM Roof with "Nucor Vise Lock"TM Seams

Purlin Spacing	Panel Width	Panel Gage	Clip Type	Purlin Gage (min)	Design Load AISI C F00-1 (sf=1.724, no wind increase)
5'0"	24"	24 ga.	Standard	.060	50.3
5'0"	24"	24 ga.	16" Perimeter Clip	.075	71.2
2'0"	24"	24 ga.	Standard	.060	85.1
2'0"	24"	24 ga.	16" Perimeter Clip	.075	149.0

ASTM E 1592 Uplift Test Results Nucor CFRTM Roof with "Nucor Vise Lock 360"TM Seams

Purlin Spacing	Panel Width	Panel Gage	Clip Type	Purlin Gage (min)	Design Load AISI C F00-1 (sf=1.724, no wind increase)
5'0"	24"	24 ga.	Standard	.060	53.7
5'0"	24"	24 ga.	12" Perimeter Clip	.075	84.1
2'0"	24"	24 ga.	Standard	.060	108.5
2'0"	24"	24 ga.	12" Perimeter Clip	.075	182.5